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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/648,531	.08/23/2000	Allen L. Frazier	10001606-1	5682
75	590		EXAMI	NER
Hewlett-Packard Company			BRINICH, STEPHEN M	
Intellectual Prop P O Box 27240	perty Administration		ART UNIT	PAPER NUMBER
Fort Collins, C	-		2624	-
			DATE MAILED: 03/29/2004	. 3

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/648,531	FRAZIER ET AL.	
Office Action Summary	Examiner	Art Unit	
	Stephen M Brinich	2624	
The MAILING DATE of this communic Period for Reply	cation appears on the cover shee	t with the correspondence address	
A SHORTENED STATUTORY PERIOD FOTHE MAILING DATE OF THIS COMMUNION. - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, is less than thirty (30). - If NO period for reply is specified above, the maximum states a period to reply within the set or extended period for reply within the set or extended period for reply and a period for reply within the set or extended period for reply wi	CATION. of 37 CFR 1.136(a). In no event, however, mainication.) days, a reply within the statutory minimum of tutory period will apply and will expire SIX (6) will, by statute, cause the application to become	ay a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this communication. ne ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed	d on .		
, ,	b) This action is non-final.		
		matters, prosecution as to the merits is	
closed in accordance with the practic	e under <i>Ex parte Quayle</i> , 1935	C.D. 11, 453 O.G. 213.	
Disposition of Claims			
4)	e withdrawn from consideration. ejected. re objected to.		
Application Papers			
9)☐ The specification is objected to by the	Examiner.		
10) The drawing(s) filed on is/are:	a) ☐ accepted or b) ☐ objected	I to by the Examiner.	
Applicant may not request that any object	- ' '	·	
Replacement drawing sheet(s) including 11) The oath or declaration is objected to		ving(s) is objected to. See 37 CFR 1.121(d). ched Office Action or form PTO-152.	•
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim f a) All b) Some * c) None of: 1. Certified copies of the priority of 2. Certified copies of the priority of	documents have been received. documents have been received in the priority documents have be nal Bureau (PCT Rule 17.2(a)).	in Application No een received in this National Stage	
Attachment(s)		•	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO) Information Disclosure Statement(s) (PTO-1449 or Faper No(s)/Mail Date 2. 	rO-948) Paper	iew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 6-7, 10-11, 16-17, & 20-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Towner et al (5929892).

Re claims 1, 6, 10, 16, & 17, Towner et al. discloses

(Figure 14; column 15, line 60 - column 16, line 20) an image

printer in which a size for each printed dot is determined on

the basis of image data pertaining to dot position (in this

case, position relative to a character edge) and dot density

(black within the character outline, white outside the character

outline).

Re claim 7, Towner et al. discloses the use of a laser printer.

Re claims 11 & 21, the determination that a given dot position lies along a character edge inherently requires determination of dot density in the neighborhood of that position (dot positions having "black" density to one side and

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"white" density on another are edge positions; dot positions surrounded by all "black" or all "white" are not edge positions).

Re claim 20, Towner et al. discloses (column 18, lines 45-46) that the disclosed arrangement of dot size control may be implemented in a combination of hardware and software (the latter inherently comprising computer-readable instructions on some type of recording medium).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Towner et al. in view of Applicant's admitted Prior Art.

Re claims 8-9, Towner et al. discloses the use of a laser printer rather than an inkjet printer as the means for placing dots representing image data onto a document. The use of inkjet printers and facsimile machines to perform this function is well

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known in the art as described by Applicant (page 1, lines 5-21). The use of the Towner et al. dot size variation scheme in order to produce sharper character printouts in an inkjet printer or a facsimile machine would be an expedient obvious to one of ordinary skill in the art.

Allowable Subject Matter

- 5. Claims 2-5, 12-15, 18-19 & 22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. The following is a statement of reasons for the indication of allowable subject matter:

Re claims 2, 12, 18, & 22 (and dependent claims 3-5, 13-15, & 19), the art of record does not teach or suggest a determination of a dot size based on a count of dots in a local square matrix in conjunction with dot location.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Gall and Wallace disclose further examples of image reproduction using dot size modulation.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen

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M. Brinich at 703-305-4390. The examiner can normally be reached on weekdays 7:00-4:30, alternate Fridays off.

Any inquiry of a general nature or relating to the status

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Tech Center 2600 Customer Service center at 703-306-0377.

If attempts to contact the examiner and the Customer Service Center are unsuccessful, supervisor David Moore can be contacted at 703-308-7452.

Faxes pertaining to this application should be directed to the Tech Center 2600 official fax number, which is 703-872-9306.

Stephen M Brinich

Examiner

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smb March 22, 2004